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GREENHOUSE RIDGE ASSEMBLY

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7 Claims. (Cl. 108—16)

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My invention relates to an improvement in a greenhouse ridge assembly which forms the top ridge member of a greenhouse and also supports hinged ventilators in a new, simple, and novel manner. It is a feature to provide a ridge assembly all of the parts of which may easily be formed from extruded aluminum.

It is a feature of my invention to provide a ridge frame member which in conjunction with my ridge cap hingedly supports my ridge sash link which in turn hingedly supports the upper sash member of a greenhouse ventilator whereby a ventilator may be raised to any position from a closed position to a vertical position.

It is a primary feature to provide a ridge frame which is positioned lengthwise of the greenhouse having formed on both sides thereof a longitudinal arcuated lip portion the length of the frame. I also provide a ridge cap having formed on both sides of the under surface thereof longitudinal arcuated lip portions running the length of the ridge cap.

It is a further feature to provide screw means for securing the ridge cap to the ridge frame whereby the arcuated lip portions of the under side of the ridge cap are complemental with the arcuated lip portions of the ridge frame thereby forming a partial cylindrical C-shaped slot. It is also an additional feature to provide a sash hinge link member having a longitudinal rod-like portion adapted to fit in the aforementioned C-shaped slot for hinging therein. I also provide on the hinge link member a C-shaped partial cylindrical edge member adapted to receive the longitudinal rod-like portion of the sash of the ventilator window for hinged cooperation therewith. The sash hinge link allows the ventilator to be opened to a vertical position and is an important feature not heretofore disclosed.

By means of new construction the ventilator may be placed in position without sliding the ventilator top rod rail into the ridge from one end or the other, but the ventilator can be connected at any point along any size greenhouse by means of the ridge cap which is fastened to the ridge frame after the ventilator ridge sash link is put in place by means of self-threading metal screws. Further, with old forms of ridge members it was only possible to raise ventilators a short distance and a ridge lock was needed.

The invention will appear more clearly from the following detailed description when taken in connection with the accompanying drawings, showing by way of example a preferred embodiment of the inventive idea.

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In the drawings forming part of the application:

Figure 1 is a perspective view of a portion of my ridge assembly and ventilator showing in broken lines the ventilator partially open.

Figure 2 is a perspective view of a portion of the sash link.

Figure 3 is a perspective view of a portion of my ridge frame member.

Figure 4 is a section on the line 4—4 of the full lines of Figure 1.

Figure 5 is a perspective view of a portion of my ridge cap in inverted position.

Figure 6 is a perspective view similar to that of Figure 1 showing the ventilator in full open position.

Figure 7 is an end view of my ridge frame and ridge cap with the sash member in operative connection therewith.

My greenhouse ridge assembly A is composed of the longitudinal ridge frame member B which consists of the longitudinal central vertical rib portion 10. Extending from the lower edge of the central rib portion 10 are the longitudinal angular leg portions 11 which are secured to the ridge pole 11' of the greenhouse. The bifurcated top portion 12 of the ridge frame B is formed integral with, or may be secured to, the upper edge of the central rib portion 10. The bifurcated top portion 12 is composed of the side portions 13 which form the longitudinal slot 14 adapted to receive the metal self-threading screws 14'. The longitudinal arcuated lip portions 15 are formed integral with and extend from the juncture of the side portions 13 and the central rib portion 10.

The ridge cap C is composed of the central longitudinal portion 16 having formed therein the longitudinal recess 17 which is adapted to fit upon the upper edges of the side portions 13 of the ridge frame B. Extending outwardly from the central portion 16 are the longitudinal arcuated lip portions 18. The ridge cap C has formed therein a series of holes 19 extending into the slot 17 adapted to receive the self-threading screws 14' for securing the ridge cap C to the ridge frame member B by screwing the screws 14' into the longitudinal slot 14. The screws 14' may be secured at any point along the slot 14 by providing the holes 14' at any desirable point on the ridge cap C which greatly facilitates construction. The ridge frame B and ridge cap C are easily extruded from aluminum and may be made of any length for any size greenhouse, the holes 19 spaced accordingly in the ridge cap C.